DATE OF FOREIGN CATHEDRALS. — Mr. Lecointre-Dupont, in a letter read at a committee meeting of the British Archæological Association, says:—"You know the difference of opinion that exists among the Norman antiquaries on the date of certain religious edifices of the middle ages, particularly of the cathedrals of Coutances and Séez, of the church of Mortain, and, out of Normandy, of the cathedral of Angers. Some, founding their opinion on historical documents, carry back the construction of these buildings, in which the ogive prevails, to the 11th century; others, with your countryman Gally Knight, assert that the dates furnished by these documents apply to churches which preceded the present buildings, the architecture of which denotes, in the most certain manner, works of the 13th century. A recent discovery has furnished an entire confirmation of the latter opinion, with regard to the cathedral of Séez. A manuscript of the bishopric of Séez gives the epitaph of Bishop Jean de Bernières, who died on Holy Thursday, 1294, and was buried in the choir of the cathedral: among the titles given him in this epitaph, is that of *hujus loci edificator*."

MEETINGS OF SCIENTIFIC BODIES

During the ensuing Week.

MONDAY, Dec. 14.—British Architects, 15, Grosvenor-street, 8 P.M.

WEDNESDAY, 16.—Society of Arts, Adelphi, 8 P.M.

THURSDAY, 17.—Royal Society, Somerset House 8½ P.M.; Antiquaries, Somerset House, 8 P.M.

TO CORRESPONDENTS.

"*Good v. Parry.*"—The information forwarded shall be considered.

"*A Traveller.*"—Pamphlet shall be left at the office on Monday.

"*Zinc.*"—A method of cleaning the files used in zinc-work (from the filings of zinc and solder), is asked for.

"*Observer.*"—We cannot assign an invention on anonymous information.

"*Subscriber.*"—We are seeking an opportunity to look at the window in question.

"*J. D. P.*"—We cannot afford space.

"*L. F. M.*"—Letter was sent.

"*G. W.*"—Thanks. They shall be looked to.

"*Quis.*"—Out of print.

"*G. L. T.*"—Shall appear.

"*Reader of the Builder.*"—Suggestion shall be considered.

"*X. Y. Z.*"—Finden's closets may be obtained at 190½ High Holborn.

"*X. X. X.*"—If M. has never paid for that portion of the wall he has now used, he is, apparently, liable for it.

Received.—"W. V. P." "T. P." "W. C." "T. P. W." "A Goth," "G. P." "A Builder and Subscriber," "H. G." "Thos. Cozens," "Health of London Association."

TO PROVINCIAL READERS.—In reply to complaints of the irregular delivery of THE BUILDER in provincial towns, we beg leave to state that it is invariably published by seven o'clock on Friday morning; and that the irregularity complained of rests entirely with the parties through whom it is obtained.

ADVERTISEMENTS.

JOSEPH FENN, 105, Newgate Street, London, Manufacturer of Turning Lathes, Flatting Mills, Stocks and Dies, Circular and other Saws, Files, Tools, and Materials for Engineers, Millwrights, Die Sinkers, Coach Makers, Locksmiths, Lamp Makers, Pianoforte Makers, Plumbers, Wood and Metal Turners, Gun Makers, Engravers, Print Cutters, Watch and Clock Makers, Lapidaries, Jewellers, Gold and Silversmiths, Saddlers, Curriers, Dentists, Philosophical and Mathematical Instrument Makers, Carpenters, &c.

Amateur mechanics and others can be supplied with every description of Mechanical Apparatus, viz.:—Wheels and Pinions, Racks, &c. &c. Sets of Mining Tools, Sets of Tools and prepared Wood for Wood Engraving. TOOL-CHESTS FITTED UP COMPLETE. Cutlery of the finest quality. Horticultural Tools. Ironmongery of every description. Brass, copper, steel, zinc, &c., in sheet, bar, and wire; Wholesale, Retail, and for Exportation. Railways supplied on the best terms.

LIGHTNING CONDUCTORS FOR BUILDINGS.

A. SMITH'S PATENT COPPER WIRE ROPE is being daily employed for the protection of CHURCHES and other buildings from the effects of thunder storms; it possesses important advantages over other forms of conductors. References can be given where it has been applied for some time past to CHURCHES, PUBLIC and PRIVATE BUILDINGS, &c., &c. Its general adoption in the Naval and Mercantile Marine of this and other countries is the strongest possible EVIDENCE of its EFFICIENCY, &c.

A. SMITH begs the attention of those engaged in building to his IMPROVED PATENT PANELLED AND REVOLVING IRON SHUTTERS,—Also, the Patent Weather-tight Fastening and Cill Bar, for French Casements, which are so much admired for their security, simplicity, cheapness, and efficiency. Of the merits of his

Patent Double and Single Action Door Springs,
Improved Flooring Cramps,
Patent Wire Sash Lines, &c. &c.,

Little need be said, as they are pretty generally known and appreciated.

Manufactory for Iron Suspension, Sliding, and other Doors, Strong Rooms, Plain and Ornamental Palisading, Gates, and Columns.—Also, Metal Sashes, Shop-fronts, Stall-board Plates, Brass butt, and other Hinges. Buildings heated upon a new, safe, and superior plan.

Estimates given for every description of Metal-work.

A. SMITH, 69, Princes-street, Leicester-square, London.

TO BUILDERS AND CARPENTERS.

A Considerable saving will be effected in the purchase of IRONMONGERY, by applying at F. B. WILLIAMSON'S Wholesale Warehouse, No. 26, Chiswell-street, Finsbury-square, near Whitbread's Brewery.

Best Patent Cut Clasp.

3d.	4d.	6d.	8d.	10d.	20d.
6d.	7d.	8d.	1s. 6d.	2s. per 1000.	

Best Sheet Floor Brads 1s. 6d. per cwt. Best Town Glue 42s. per cwt. Do. Scotch 32s. per cwt.

Best Patent Sash Line.

1	2	3	4	5	6
4s. 3d.	5s.	6s. 6d.	7s. 6d.	10s.	12s. per gross.

Elliptic Stoves, 3d. per inch. Registers, 6½d.; 7d., 8d. per inch. Self-acting Kitchen Ranges with Oven and Back Boiler. Wrought Bars and Bright Fittings.

2 ft., 2l. 5s.	3 ft. 6 in., 3l. 12s. 6d.	4 ft., 4l.

Lists of Prices had on application at the Warehouse; if by letter prepaid, inclosing postage stamp.

TO ARCHITECTS, BUILDERS, &c.

RHENLY & Co., WHOLESALE IRONMONGERS, and MANUFACTURERS of KITCHEN-RANGES, STOVES, &c., 196, Blackfriars-road, and 117, Union-street, Borough.

Strong Self-acting Kitchen-Ranges, with back Boiler and Oven, and Wrought Bars:—

2 ft.	3 ft. 3 in.	3 ft. 6 in.	3 ft. 9 in.	4 ft.
3l. 6s.	3l. 13s.	3l. 18s.	4l.	4l. 10s.

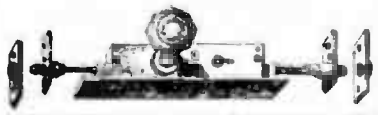
Henly's Patent Improved, with back Boiler and Wrought Iron Oven:—

3 ft.	3 ft. 3 in.	3 ft. 6 in.	3 ft. 9 in.	4 ft.
4l.	4l. 10s.	4l. 5s.	4l. 10s.	7l.

Best Register Stoves, at 7d., 8d., and 9d. per inch.
Do. Elliptic do., at 5½d., and 4d. do.

Manufacturer of WOLFASTON'S PATENT REGISTER STOVES, a certain cure for SMOKY CHIMNEYS, and effecting a great saving in fuel. To be seen in use daily.

Orders from the Country, accompanied with a remittance or reference, will meet with prompt attention.



IMPORTANT TO ARCHITECTS, BUILDERS, AND CABINET MAKERS.

LEA'S PATENT DOUBLE-ACTION BOLT, combining Cheapness, Facility of Action, and Security; adapted for the Strongest Folding-doors as well as the most Elegant Cheffonecr.

Agent, E. PARKS, 140, Fleet-street.

Best Patent Cut Clasp.

6d.	7d.	8d.	1s.	1s. 6d.	2s. 3d.
3d.	4d.	6d.	8d.	10d.	20d.

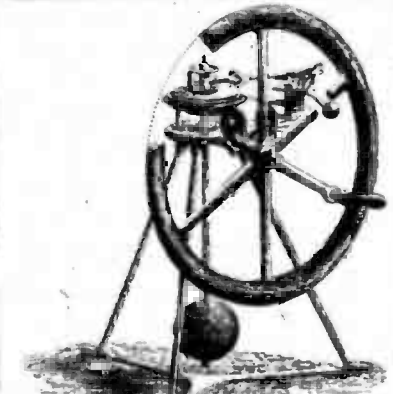
Best Patent Sash Line.

4s. 3d.	5s.	6s. 6d.	7s. 6d:	10s.	12s.
1	2	3	4	5	6

Every description of Ironmongery equally low.

SIFTED GRAVEL.—A large quantity of Sifted Gravel FOR SALE at London-street, Paddington, close by the Great Western Terminus.—Apply to Mr. G. BIRD, builder, 3a, Edgware-road.

ARCHITECTURAL SUBJECTS (Outlines) coloured for competition or exhibition, and embellished with landscape, &c. Buildings, Portraits, and Views of every description, lithographed in a superior manner, by GEORGE CHILDS, 12, Amwell-street, Pentonville.



THE CHRONOMETRIC GOVERNOR invented by Messrs. SIEMENS, of Berlin, patented and supplied by JOSEPH WOODS and Co., Range-yard-chambers, Buckleresbury, London, has now been in constant use, for regulating the supply of power for grinding corn, and moving machinery of other kinds, for a considerable time, and it is found to succeed perfectly in producing an instantaneous and automatic adjustment of the supply of power, without allowing any variation of speed; the result of which enables all manufacturers, dependent on regularity of the velocity for a maximum result, to attain a greater uniformity in, and increased quantity of, the manufactured article produced in a given time, without increasing the expenditure of power. This effect in grinding corn amounts to an increase of 10 per cent.

These instruments may be applied to existing steam-engines, water-wheels, &c., without interruption to their constant work, and at an expense very much below the value of the advantages obtained.

Testimonials may be seen, and every information obtained, at the office of the Patentees, and cards for admission to the numerous flour-mills, saw-mills, and other works in different parts of the country, where the Chronometric Governor is employed, on application to them.

SNOXELL'S PATENT SAFETY REVOLVING WOOD SHUTTERS.

Manufactory, 96, Regent-street, and 131, Chancery-lane.

THE Patentee having fixed a great number of his shutters in London, and given universal satisfaction, can confidently recommend them both for security and durability, the edges being sheathed with Iron. Their construction is so simple that the largest establishment can be opened or closed with the greatest possible ease without the use of machinery. Their superiority over other revolving shutters consists in their great strength and stiffness, being without metal hinges, consequently cannot rust, buckle, be strained, or get out of order, and are safer. Persons dissatisfied with the patent rising gear now used for iron shutters can have it removed, and the shutters made to draw up in any part of the premises with the slightest exertion, without machinery, thereby avoiding the unpleasant use of oil.

INJUNCTION.

BUNNETT and CORPE'S Patent REVOLVING IRON SHUTTERS.—Since the verdict found in favour of the Patentees, in the Court of Exchequer, in the action tried by order of the Court of Chancery, that Court has granted a perpetual Injunction for restraining all infringements of this Patent, and therefore all parties are hereby cautioned against infringing the same.

THE PRICES ARE GREATLY REDUCED, and BUNNETT AND CORPE'S PATENT IRON SHUTTERS ARE THE CHEAPEST AS WELL AS THE BEST. They are made with convex laths, if required. The worm and wheel motion for raising and lowering revolving iron shutters (as secured by this Patent) is the only safe and durable mode of effecting that object. In large shutters it is indispensable.

Some thousands of Bunnett and Corpe's Shutters have now been put up, without a single complaint of their want of strength or security, and nine years' practical experience (during which they have adopted every real improvement) enables the Patentees to challenge comparison with any others. They will guarantee all Shutters put up by them to keep in order, and last twice as long as any with thin convex laths.

B. and C. also manufacture REVOLVING WOOD SHUTTERS (the Patent for which has expired), at the same prices as other makers, but greatly superior, being fitted with their patent raising gear, and proper metallic hinges, without which no shutter can be safe or durable.

BUNNETT and CORPE are likewise Patentees and Manufacturers of METALLIC SASH-BARS, MOULDINGS, &c., IN BRASS, COPPER, OR ZINC, FOR SHOP FRONTS, WINDOWS, SKYLIGHTS, AND VARIOUS OTHER PURPOSES.

Shop-fronts fitted with Iron Shutters, Patent Brass or Zinc Sashes, Plain or ornamental, handsomely Engraved, Moulded, Stall-board Plates, best Plate Glass, and Internal Brass Fittings of all kinds, superior in quality and workmanship, and lower in price than any other house.

Contracts taken in Town or Country.

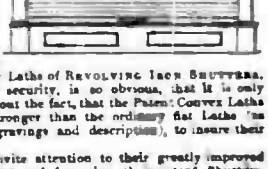
Metal Drawing and Stamping for the Trade.

Office at No. 26, Lombard-street, London; Works, at Deptford, Kent.

Steam-engines, Sawing, Planing, and Moulding, Cutting-machines on Improved Plans, especially adapted for Builders' purposes, may be seen in operation at the Works.

IMPROVED PATENT CONVEX IRON REVOLVING SAFETY SHUTTERS.—Patent Panelled Iron Safety Shutters. PATENT OUTSIDE SHUTTER BLINDS.—PATENT CORRUGATED WINDOW BLINDS.

The attention of Architects, Builders, and Blind Makers is requested to the IMPORTANT PATENTED IMPROVEMENTS in the above enumerated Articles, and Inspection invited, at the Manufactory of the Patentees, R. HOWARD & Co. 119, Old Street, London.



The great importance of strength and stiffness in the Laths of REVOLVING IRON SHUTTERS, when required for security, is so obvious, that it is only necessary to point out the fact, that the Patent Convex Laths are twelve times stronger than the ordinary flat Lathe (as shewn by the engravings and description), to insure their general adoption.

The Patentees invite attention to their greatly improved Gearing for Raising and Lowering their patent Shutters, which, possessing all the advantages of the endless screw (worm and wheel), cannot, even by wear, be liable to run down, and entirely avoids the necessity of using the ratchet wheel; it is at once simple and THOROUGHLY EFFECTIVE, and is SAFER and MORE DURABLE than any plan yet adopted for that purpose, thus rendering their patent Revolving Shutters the SAFEST and MOST EFFICIENT in use. These Shutters are fixed horizontally (either above or below the window or door), or vertically, for which position the great additional strength of the Convex Laths renders them peculiarly suitable.

REVOLVING IRON SHUTTERS, MADE OF THE COMMON FLAT LATHS, at a considerable reduction of price.

CAUTION.—The Patentees beg to caution all persons against Making or Using RENT or CONVEX LATHS for REVOLVING IRON SAFETY SHUTTERS (whether winding horizontally or vertically), so as to obtain increased strength and stiffness, as they thereby render themselves liable to legal proceedings for infringing this patent.

Engravings and Prospectuses will be forwarded on application.

DRAWN METALLIC SASH BARS, ASTRIGALS, MOULDINGS, STALL BOARD PLATES, &c.

Patentees and Manufacturers, R. HOWARD and Co., London.

To Engineers and Architects, and as an Elegant Present to a Lady, as well as a most Convenient Pocket Appendage.

TO all those who find a Difficulty in the Use of STEEL PENS, and who wish to avoid the loss of time occasioned by the frequent mending of Quills, STEPHENS'S PERPETUAL PEN, made of Gold, with points which never wear or alter, offers a most convenient substitute, as Ink which oxydises and lingers in the steel pen, flows from this with precisely the same facility as from a Quill, and the Pen never requires mending. Price 15s. It may be used with a common holder. With an ever-pointed Silver Pencil Case, with Leads, 27s.

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